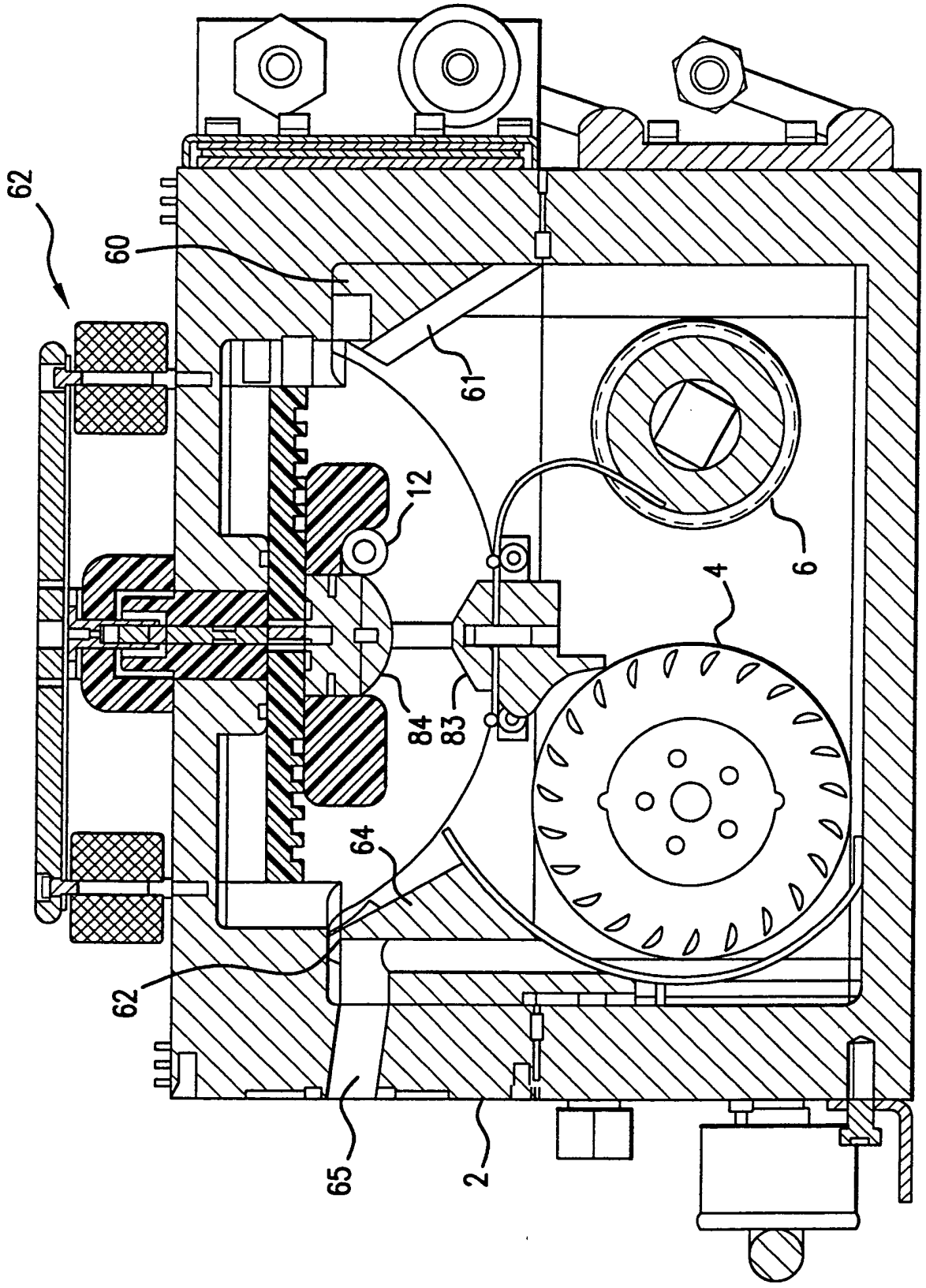

FIG.1

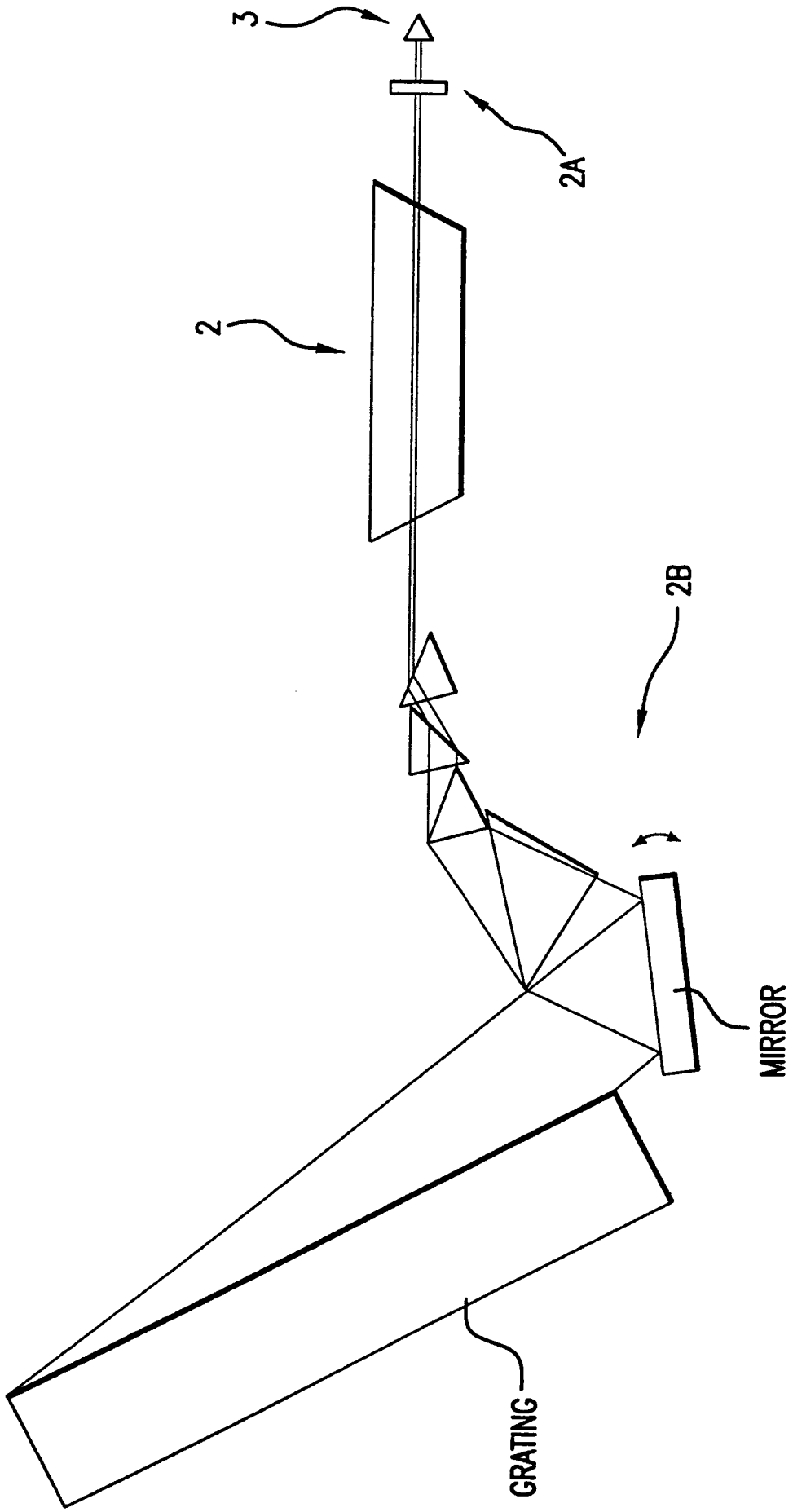

FIG.2

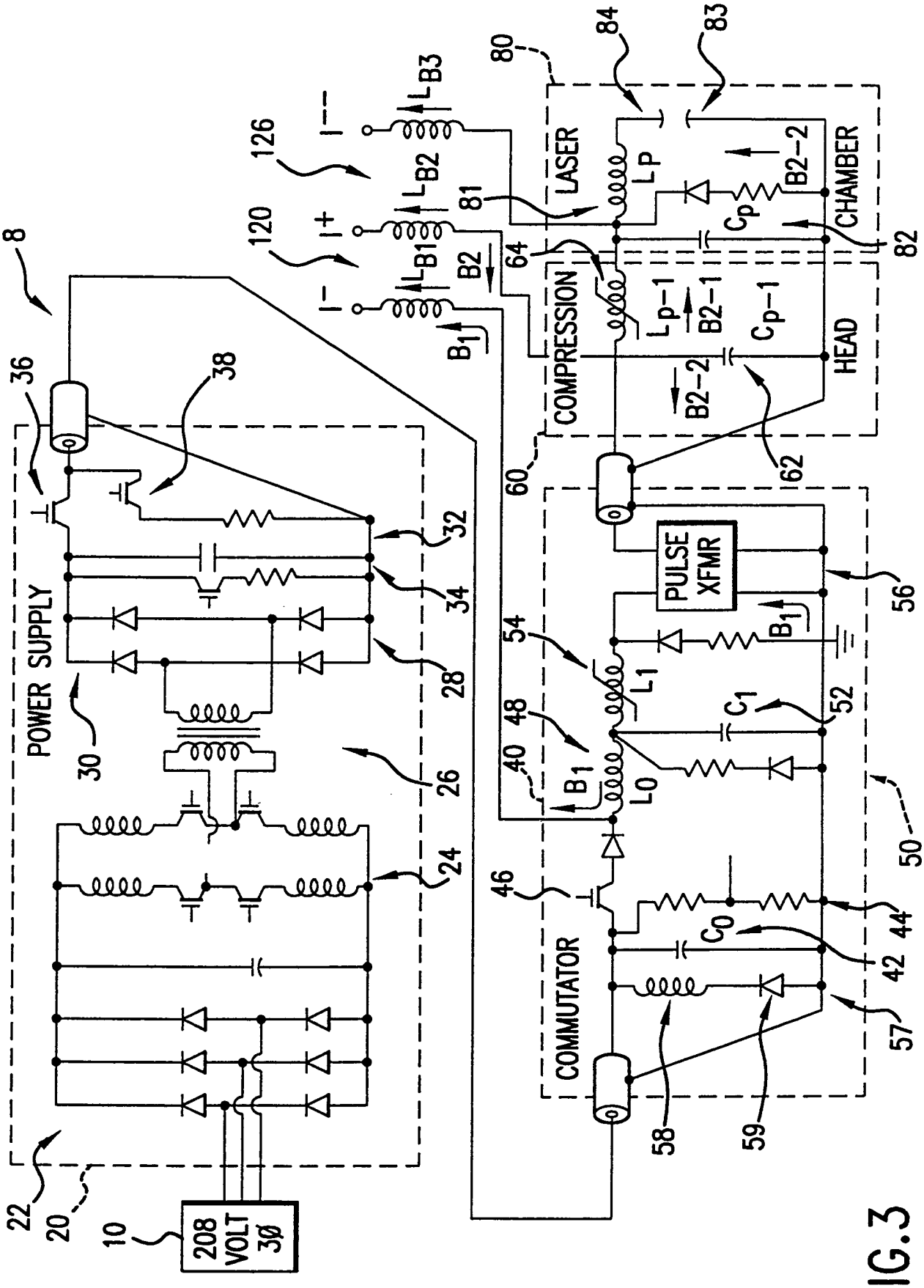
8
POWER SUPPLY
36
38
32
34
28
30
26
24
22
20
10
208 VOLT 3ø
126
120
I--
I+
I-
L_{B3}
L_{B2}
L_{B1}
B2
B_1
80
84
83
LASER
L_P
81
C_p
B2-2
CHAMBER
82
64
COMPRESSION
L_{p-1}
B2-1
C_{p-1}
HEAD
B2-2
62
60
PULSE XFMR
56
B_1
54
L_1
C_1
52
48
40
B_1
L_0
50
46
COMMUTATOR
C_0
44
42
57
58
59

FIG.3

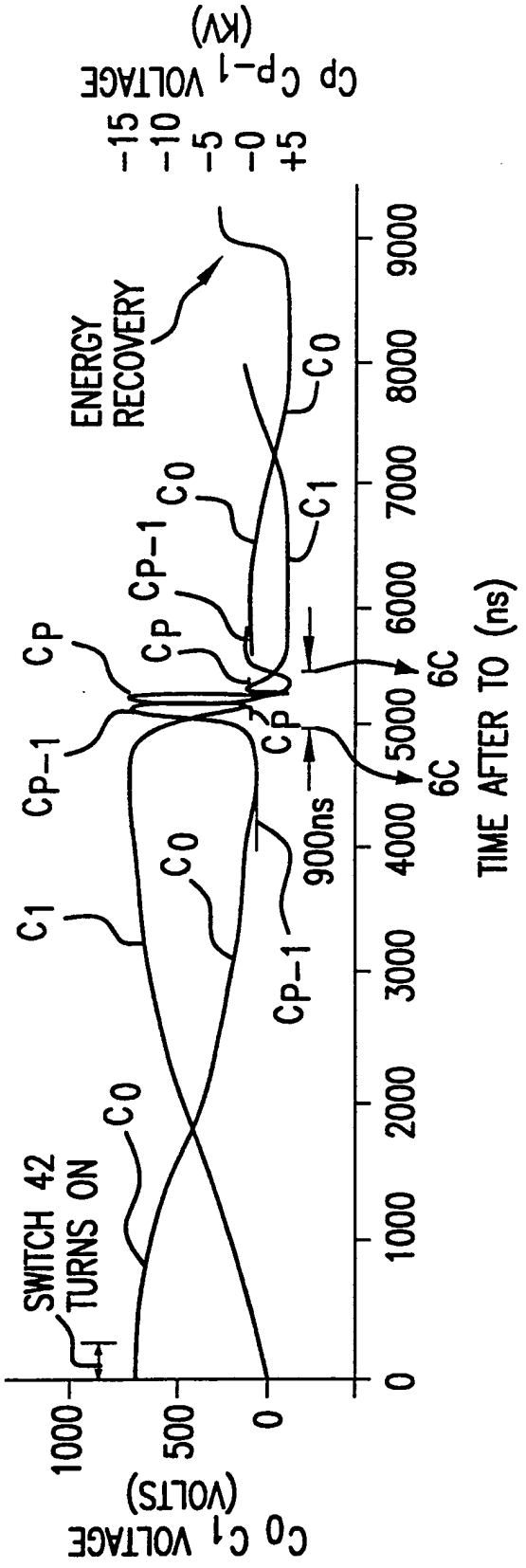
Cp Cp-1 VOLTAGE (kV)
-15
-10
-5
-0
+5
ENERGY RECOVERY
C0
C1
CP-1
CP
6C
6C
900ns
SWITCH 42 TURNS ON
C0 C1 VOLTAGE (VOLTS)
1000
500
0
0
1000
2000
3000
4000
5000
6000
7000
8000
9000
TIME AFTER TO (ns)

FIG.4A

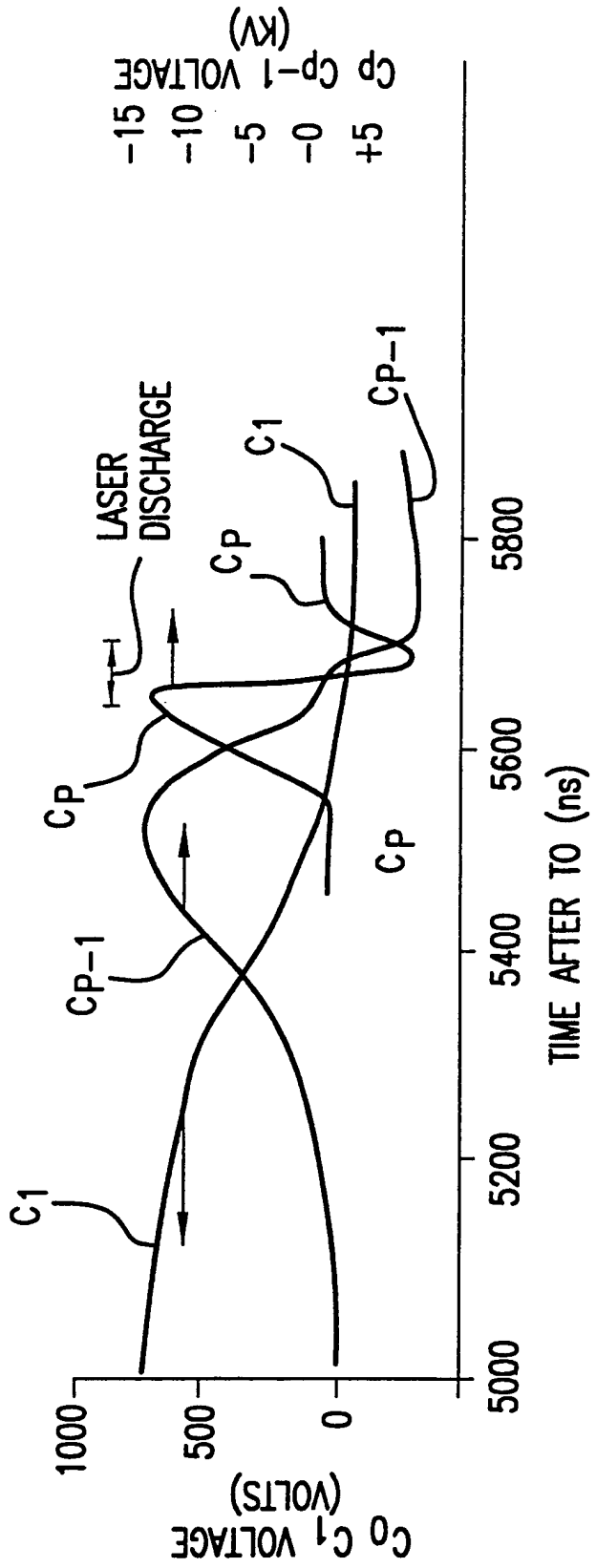
Cp Cp-1 VOLTAGE (KV)
-15
-10
-5
-0
+5
LASER DISCHARGE
C1
CP
CP-1
CP
CP
CP-1
C1
5000
5200
5400
5600
5800
TIME AFTER TO (ns)
1000
500
0
C0 C1 VOLTAGE (VOLTS)

FIG.4B

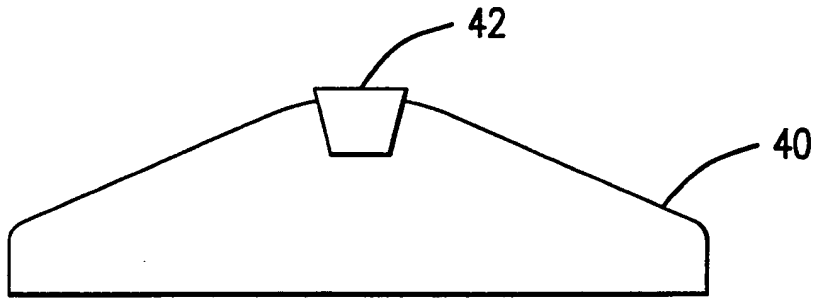

FIG.6

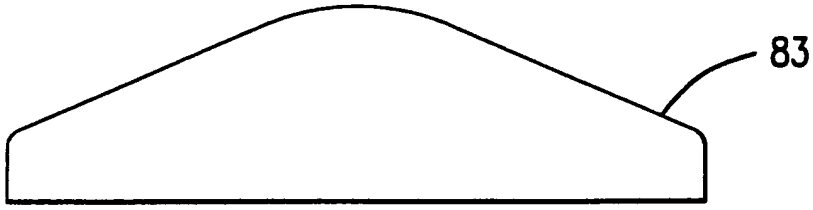

FIG.5 PRIOR ART

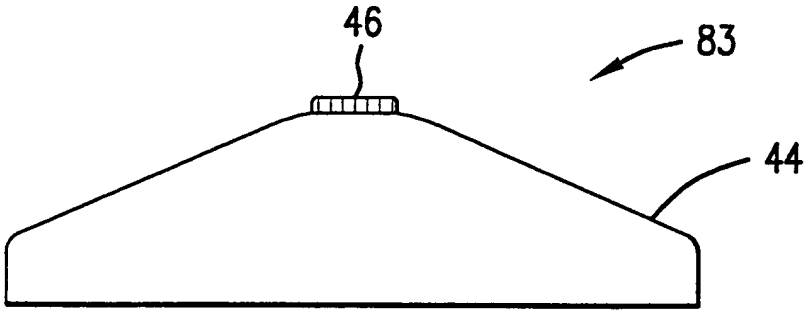

FIG.7

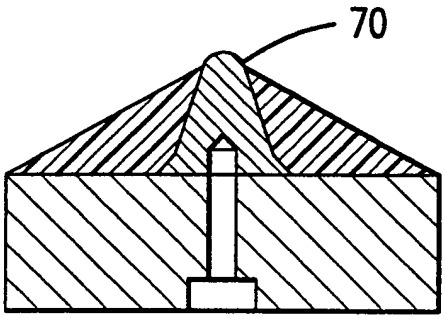

FIG.12

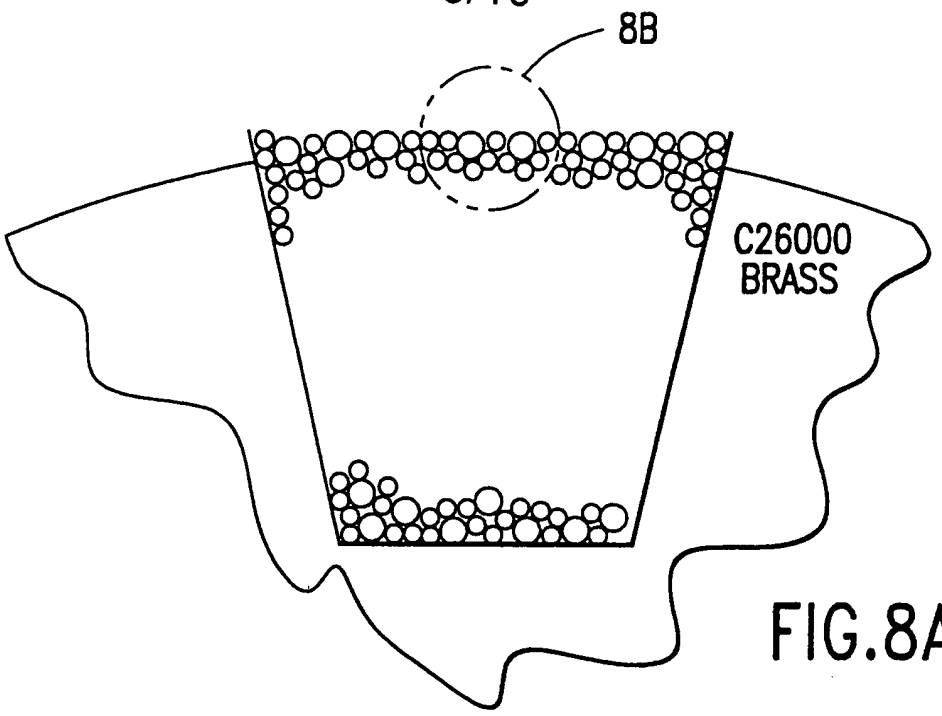

FIG.8A

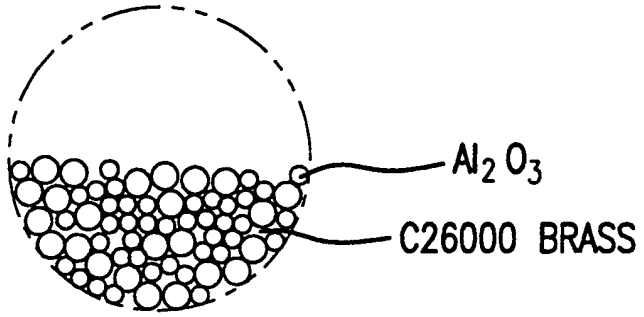

FIG.8B

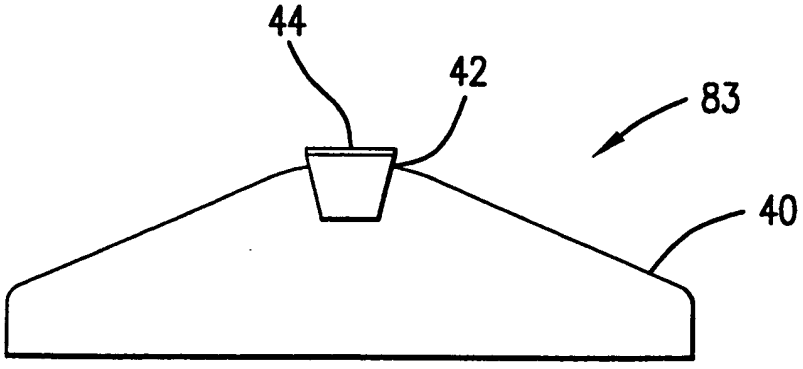

FIG.9

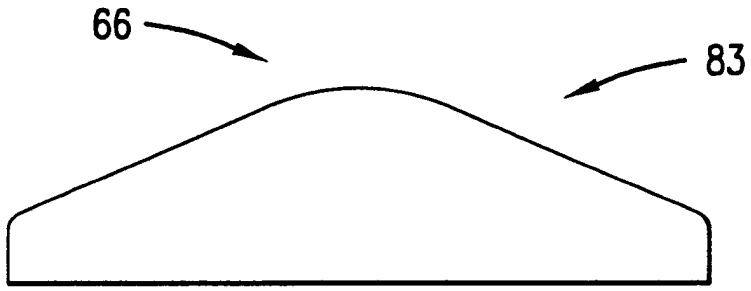

FIG.10A

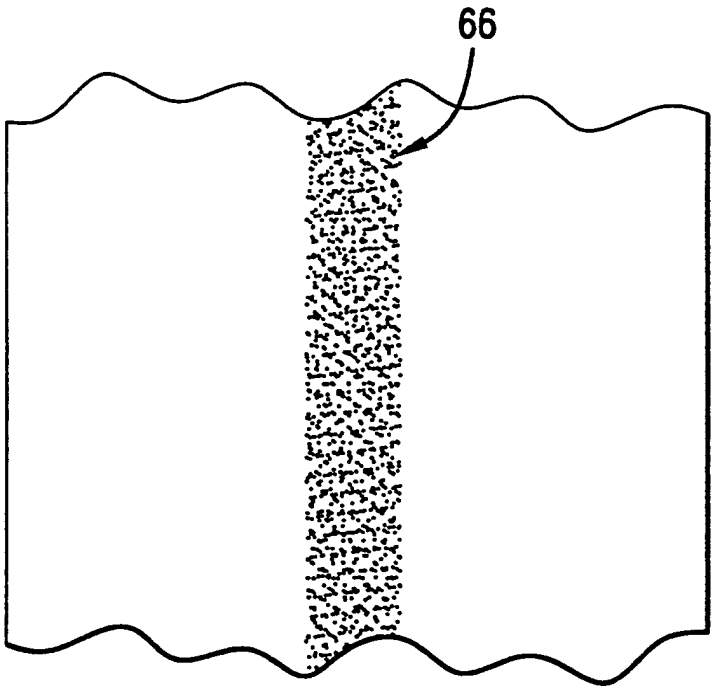

FIG.10B

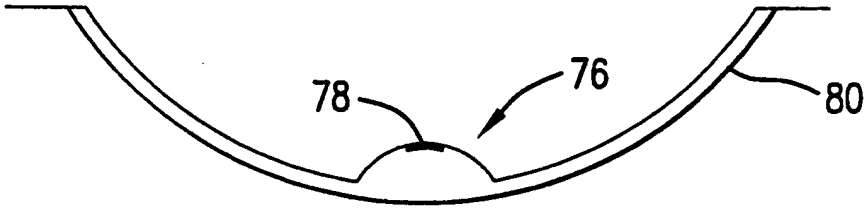

FIG.11